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Distribution of the **cluster centers** and object frequency for. 19 proposed key-pictures, ... At the end of the learning phase, only the **weight vectors** of the ...
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weight vectors are ordered in the grid according to their similarity. Therefore we can expect that the **cluster centers** are arranged in ...
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clusterdemo.m - clustering algorithm demonstration program % (C ...
... legend('data points','True **cluster centers**') % apply kmeansf.m to the data % Input - W: initial **weight vectors** c by N matrix, c: # of clusters % - X: K ...
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weight vectors with ... to translate a **set of cluster centers** into fuzzy. inference system. For the rule that. is. represented by cluster center ...
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Its weight vector, and the **weight vectors** of its neighbors are updated in the direction of. the data vector, thus leading to a ... A **set of cluster centers** ...
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The weight vector of the cluster center and the **weight vectors** of units i in a ... partitioned in a **set of cluster centers** and a set of units which do not ...
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weight vectors, one for each class. An instance is classified as ... a **set of cluster centers**, and all data points must be examined and assigned to ...
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Relevance scale

1 Data clustering: a review

A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Publisher: ACM Press

Full text available: pdf(636.24 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

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1 Online multiclass learning by interclass hypothesis sharing

Michael Fink, Shai Shalev-Shwartz, Yoram Singer, Shimon Ullman
June 2006 **Proceedings of the 23rd international conference on Machine learning ICML '06**
Publisher: ACM Press
Full text available: pdf(196.22 KB) Additional Information: full citation, abstract, references

We describe a general framework for online multiclass learning based on the notion of hypothesis sharing. In our framework sets of classes are associated with hypotheses. Thus, all classes within a given set share the same hypothesis. This framework includes as special cases commonly used constructions for multiclass categorization such as allocating a unique hypothesis for each class and allocating a single common hypothesis for all classes. We generalize the multiclass Perceptron to our framew ...

2 Controlling generalization and polyvariance in partial deduction of normal logic programs

Michael Leuschel, Bern Martens, Danny De Schreye
January 1998 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 20 Issue 1
Publisher: ACM Press
Full text available: pdf(911.56 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Given a program and some input data, partial deduction computes a specialized program handling any remaining input more efficiently. However, controlling the process well is a rather difficult problem. In this article, we elaborate global control for partial deduction: for which atoms, among possibly infinitely many, should specialized relations be produced, meanwhile guaranteeing correctness as well as termination? Our work is based on two ingredients. First, we use the concept of a ch ...

Keywords: flow analysis, partial deduction, partial evaluation, program transformation, supercompilation

3 Real-world applications: papers: Designing safe, profitable automated stock trading agents using evolutionary algorithms

Harish Subramanian, Subramanian Ramamoorthy, Peter Stone, Benjamin J. Kuipers
July 2006 **Proceedings of the 8th annual conference on Genetic and evolutionary**

computation GECCO '06
Publisher: ACM Press
Full text available: pdf(241.49 KB) Additional Information: full citation, abstract, references, index terms

Trading rules are widely used by practitioners as an effective means to mechanize aspects of their reasoning about stock price trends. However, due to the simplicity of these rules, each rule is susceptible to poor behavior in specific types of adverse market conditions. Naive combinations of such rules are not very effective in mitigating the weaknesses of component rules. We demonstrate that sophisticated approaches to combining these trading rules enable us to overcome these problems and gain ...

Keywords: application, finance, fitness evaluation, genetic algorithms, genetic programming

4 Bayes point machines
Ralf Herbrich, Thore Graepel, Colin Campbell
September 2001 **The Journal of Machine Learning Research**, Volume 1
Publisher: MIT Press
Full text available: pdf(1.02 MB) Additional Information: full citation, abstract, references, citings

Kernel-classifiers comprise a powerful class of non-linear decision functions for binary classification. The support vector machine is an example of a learning algorithm for kernel classifiers that singles out the consistent classifier with the largest margin, i.e. minimal real-valued output on the training sample, within the set of consistent hypotheses, the so-called *version space*. We suggest the *Bayes point machine* as a well-founded improvement which approximates the Bayes-optim ...

5 Poster 3: content track: Two-scale image retrieval with significant meta-information feedback
Jia Li
November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**
Publisher: ACM Press
Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, index terms

A two-scale image retrieval system is developed to provide efficient search in large-scale databases as well as flexibility for users to incorporate ubjective preferences during retrieval. A new clustering method is developed for images each characterized by a varying number of weighted feature vectors. Furthermore, significant meta-information is mined within every cluster. A scanning mode of retrieval is created using cluster centers, which serve as a low scale version of a database in contras ...

Keywords: fast search, image clustering, image retrieval, meta-information feedback

6 Animation: Statistical synthesis of facial expressions for the portrayal of emotion
Lisa Gralewski, Neill Campbell, Barry Thomas, Colin Dalton, David Gibson, University of Bristol
June 2004 **Proceedings of the 2nd international conference on Computer graphics and interactive techniques in Australasia and South East Asia GRAPHITE '04**
Publisher: ACM Press
Full text available: pdf(907.19 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a novel technique for the generation of 'video textures' to display human emotion. This is achieved by a method which uses existing video footage to

synthesise new sequences of coherent facial expression and head motions.An '*expression space*' which is defined by sets of emotion models is constructed using principal components analysis (PCA) and the application of an auto-regressive process (ARP). Using this expression space a tool has been developed which enables this ...

Keywords: emotion, image based rendering, modelling, principal components analysis, self organising maps, synthesis

7 Posters: A learning-based coalition formation model for multiagent systems

Leen-Kiat Soh, Xin Li

July 2003 **Proceedings of the second international joint conference on Autonomous agents and multiagent systems**

Publisher: ACM Press

Full text available: pdf(578.85 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we present a learning-based coalition formation model that forms sub-optimal coalitions among agents to solve real-time constrained allocation problems in a dynamic, uncertain and noisy environment. This model consists of three stages (coalition planning, coalition instantiation and coalition evaluation) and an integrated learning framework. An agent first derives a coalition formation plan via case-based reasoning (CBR). Guided by this plan, the agent instantiates a coalition thr ...

Keywords: coalition formation, learning, multiagent systems, negotiation, real time

8 Session 11B: Pursuit-evasion with imprecise target location

Günter Rote

January 2003 **Proceedings of the fourteenth annual ACM-SIAM symposium on Discrete algorithms**

Publisher: Society for Industrial and Applied Mathematics

Full text available: pdf(744.89 KB) Additional Information: full citation, abstract, references, index terms

We consider a game between two persons where one person tries to chase the other, but the pursuer only knows an approximation of the true position of the fleeing person. The two players have identical constraints on their speed. It turns out that the fugitive can increase his distance from the pursuer beyond any limit. However, when the speed constraints are given by a polyhedral metric, the pursuer can always remain within a constant distance of the other person.We apply this problem to buffer ...

9 A QoS-Provisioning neural fuzzy connection admission controller for multimedia high-speed networks

Ray-Guang Cheng, Chung-Ju Chang, Li-Fong Lin

February 1999 **IEEE/ACM Transactions on Networking (TON)**, Volume 7 Issue 1

Publisher: IEEE Press

Full text available: pdf(342.90 KB) Additional Information: full citation, references, citings, index terms

10 Automatic generation of "hyper-paths" in information retrieval systems: a stochastic and an incremental algorithms

Alain Lelu

September 1991 **Proceedings of the 14th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available: pdf(981.55 KB) Additional Information: full citation, references, citings, index terms

11 Multi-agent systems and social behavior: Learning on opponent's preferences to make effective multi-issue negotiation trade-offs

Robert M. Coehoorn, Nicholas R. Jennings

March 2004 **Proceedings of the 6th international conference on Electronic commerce ICEC '04**

Publisher: ACM Press

Full text available: pdf(457.36 KB) Additional Information: full citation, abstract, references

Software agents that autonomously act and interact to achieve their design objectives are increasingly being developed for a range of e-commerce applications. In this context, automated negotiation is a central concern since it is the de facto means of establishing contracts for goods or services between the agents. Now, in many cases these contracts consist of multiple issues (e.g. price, time of delivery, quantity, quality) which makes the negotiation more complex than when dealing with just p ...

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1 A sub Bayesian nearest prototype neural network with fuzzy interpretability for diagnosis problems

Saman Halgamuge, Christoph Grimm, Manfred Glesner

February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: pdf(508.72 KB) Additional Information: full citation, references, citings, index terms

Keywords: Bayes classifier, fuzzy rules, neural networks, rule generation

2 A modular approach for exploring the semantic structure of technical document collections

Andreas Becks, Stefan Sklorz, Matthias Jarke

May 2000 **Proceedings of the working conference on Advanced visual interfaces**

Publisher: ACM Press

Full text available: pdf(712.88 KB) Additional Information: full citation, abstract, references, citings, index terms

The identification and analysis of an enterprise's knowledge available in a documented form is a key element of knowledge management. Visual methods which allow easy access to a document collection's contents are an enabling technology. However, no single information retrieval technique is likely to adequately deal with such tasks independent of the specific situation. In this paper, we therefore present a visualization technique based on a modular approach that allows a variety of techniqu ...

Keywords: document management and retrieval, knowledge management

3 Poster 3: content track: Two-scale image retrieval with significant meta-information feedback

Jia Li

November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**

Publisher: ACM Press

Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, index terms

A two-scale image retrieval system is developed to provide efficient search in large-scale databases as well as flexibility for users to incorporate ubjective preferences during retrieval. A new clustering method is developed for images each characterized by a varying number of weighted feature vectors. Furthermore, significant meta-information is mined within every cluster. A scanning mode of retrieval is created using cluster centers, which serve as a low scale version of a database in contras ...

Keywords: fast search, image clustering, image retrieval, meta-information feedback

4 Concept features in Re:Agent, an intelligent Email agent

Gary Boone
May 1998 **Proceedings of the second international conference on Autonomous agents**
Publisher: ACM Press
Full text available: pdf(1.07 MB) Additional Information: full citation, references, citings, index terms

5 A LVQ-based neural network anti-spam email approach

Zhan Chuan, Lu Xianliang, Hou Mengshu, Zhou Xu
January 2005 **ACM SIGOPS Operating Systems Review**, Volume 39 Issue 1
Publisher: ACM Press
Full text available: pdf(390.62 KB) Additional Information: full citation, abstract, references, index terms

Along with wide application of e-mail nowadays, many spam e-mails flood into people's email inboxes and bring catastrophe to their study and work. This paper presents a novel anti-spam e-mail filter based-LVQ network in terms of spam e-mails which are mainly made up of several kinds commercial or political spam emails at present. Our experiment has proved that the filter based on LVQ is superior to Bayes-based and BP-based approaches in total performances apparently.

Keywords: LVQ, anti-spam e-mail filtering, mutual information, vector space model

6 Fuzzy input coding for an artificial neural—network modelling visual speech movements

Hans-Heinrich Bothe
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(406.28 KB) Additional Information: full citation, references, index terms

Keywords: Kohonen map, certificial visual speech (AVS), fuzzy input coding, lip-reading, radical basis function network

7 Integration of self-organizing maps with spatial indexing for efficient processing of multi-dimensional data

M. Zaremba, L. St-Laurent, O. Niemann, D. Richardson
November 2000 **Proceedings of the 8th ACM international symposium on Advances in geographic information systems**
Publisher: ACM Press
Full text available: pdf(721.38 KB) Additional Information: full citation, abstract, index terms

This paper investigates the integration of a class of adaptive soft-computing techniques and architectures with helical hyperspatial codes (HHCode) - indexing technology developed at Canadian Hydrographic Services - and their use in developing automated systems for processing of complex, multi-dimensional geo-spatial information, mainly multi-spectral satellite imagery, in a broader context of knowledge extraction and representation. The soft-computing methods investigated here involve fusion ...

Keywords: clustering methods, fuzzy logic, multi-dimensional indexing, multi-spectral data processing, self-organizing maps

8 Explorative multilingual text retrieval based on fuzzy multilingual keyword classification

Rowena Chau, Chung-Hsing Yeh

November 2000 **Proceedings of the fifth international workshop on on Information retrieval with Asian languages**

Publisher: ACM Press

Full text available: pdf(689.91 KB) Additional Information: full citation, abstract, references

This paper proposes an explorative approach to multilingual text retrieval (MLTR) based on fuzzy multilingual keyword classification. The approach applies fuzzy clustering to obtain a classification of multilingual keywords by concepts. A multilingual concept directory is developed by labeling each concept with native language of the target user and associating it with relevant multilingual documents. The directory works as a searching interface for document browsing. This explorative approac ...

Keywords: document classification, fuzzy clustering, keyword classification, multilingual text retrieval

9 Precomputed transfer: Real-time soft shadows in dynamic scenes using spherical harmonic exponentiation

Zhong Ren, Rui Wang, John Snyder, Kun Zhou, Xinguo Liu, Bo Sun, Peter-Pike Sloan, Hujun Bao, Qunsheng Peng, Baining Guo

July 2006 **ACM Transactions on Graphics (TOG)**, Volume 25 Issue 3

Publisher: ACM Press

Full text available: pdf(457.43 KB) mov(18:44 MIN) Additional Information: full citation, abstract, references, index terms

Previous methods for soft shadows numerically integrate over many light directions at each receiver point, testing blocker visibility in each direction. We introduce a method for real-time soft shadows in dynamic scenes illuminated by large, low-frequency light sources where such integration is impractical. Our method operates on vectors representing low-frequency visibility of blockers in the spherical harmonic basis. Blocking geometry is modeled as a set of spheres; relatively few spheres capt ...

Keywords: Volterra series, ambient occlusion, lighting environment

10 Research sessions: query processing II: Efficient k-NN search on vertically decomposed data

Arjen P. de Vries, Nikos Mamoulis, Niels Nes, Martin Kersten

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available: Additional Information: full citation, abstract, references, citings, index

pdf(1.26 MB) terms

Applications like multimedia retrieval require efficient support for similarity search on large data collections. Yet, nearest neighbor search is a difficult problem in high dimensional spaces, rendering efficient applications hard to realize: index structures degrade rapidly with increasing dimensionality, while sequential search is not an attractive solution for repositories with millions of objects. This paper approaches the problem from a different angle. A solution is sought in an unconvent ...

11 Papers: surfaces: Perceptually optimizing textures for layered surfaces

Alethea Bair, Donald House, Colin Ware
August 2005 **Proceedings of the 2nd symposium on Applied perception in graphics and visualization APGV '05**
Publisher: ACM Press
Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, index terms

In this paper, we take a new look at the problem of texturing surfaces so that they can be displayed layered over each other but remain clearly visible. Finding optimal textures that solve this problem is complex because of the perceptual interactions between the visual effects of parameters controlling texture generation. Instead of using controlled experiments to investigate this problem, we use a genetic algorithm based human-in-the-loop parameter space search to build a large database of hum ...

Keywords: data mining, genetic algorithm, layered surfaces, neural networks, perception, principal component analysis, visualization evaluation

12 Distributed data clustering can be efficient and exact

George Forman, Bin Zhang
December 2000 **ACM SIGKDD Explorations Newsletter**, Volume 2 Issue 2
Publisher: ACM Press
Full text available: pdf(514.56 KB) Additional Information: full citation, index terms

Keywords: data mining, distributed computing, multidimensional data clustering, parallel algorithms, very large databases

13 Book review: Competitively Inhibited Neural Networks for Adaptive Parameter Estimation by Michael Lemmon (Kluwer Academic Publishers, 1991)

Joseph M. Barone
October 1992 **ACM SIGART Bulletin**, Volume 3 Issue 4
Publisher: ACM Press
Full text available: pdf(566.62 KB) Additional Information: full citation, abstract, references

Rigorous, formal treatments of neural network fundamentals (i.e., treatments whose arguments consist primarily of theorems and proofs) have by now focused on a number of aspects. The convergence properties (stability) and capacity of neural nets of various types have been analyzed in this manner to one degree or another (e.g., [1-3]), and their expressive power has also been the subject of a number of formal analyses (e.g.,[4]). Though not necessarily perfectly rigorous in the sense just mention ...

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